

19990214.qrp v01_n367.qrl.990214

Date: Sun, 14 Feb 1999 19:03:40 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1367

QRP-L Digest 1367

Topics covered in this issue include:

- 1) [32985] soldering station
by "Mark Paley" <mpaley@wcnet.org>
- 2) [32986] Caps: Orders Received, not shipped
by wb2vuo@juno.com
- 3) [32987] QSLMaker 2.0 now available
by "John J. McDonough" <jjmcd@tm.net>
- 4) [32988] Wanted ZM-1,2 and MFJ 9020
by Jeff <fantbb@yahoo.com>
- 5) [32989] Main 160-80-40 ANT totaled
by "Ed Tanton" <n4xy@mindspring.com>
- 6) [32990] ::: PBS SHOW OF INTEREST :::
by Jacob <alfa33@scn.org>
- 7) [32991] Back on 30m at last! (VE-AZ Sked?)
by Joe Gervais <vole@primenet.com>
- 8) [32992] Re: WTB (Don't Laugh): NorCal 20
by w4bws@juno.com
- 9) [32993] Solar power for hiking
by "Kim Andersen" <ox3fv@greenet.gl>
- 10) [32994] FS: 40 & 80 M XTALs.
by "Vincent Ferme" <vferme@sprint.ca>
- 11) [32995] Sunday morning NVIS practice update
by Jim Glover <psykey@okcforum.org>
- 12) [32996] Elmer200: LC Frequency Calcs es Q [long]
by Chuck Adams <adams@ticnet.com>
- 13) [32997] Duplicating message clarification
by Chuck Adams <adams@ticnet.com>
- 14) [32998] Re: Elmer200: LC Frequency Calcs es Q [long]
by Chuck Adams <adams@ticnet.com>
- 15) [32999] Re: Solar power for hiking
by S LYON <sslyon@worldnet.att.net>
- 16) [33000] Re: Solar power for hiking (long)
by The Boices <boice@bigfoot.com>
- 17) [33001] WTB: Rainbow Tuner kit
by "Nathan Odle" <nodle01@mail.coin.missouri.edu>
- 18) [33002] Re: soldering station
by The Boices <boice@bigfoot.com>
- 19) [33003] Re: soldering station (on sale !)

- by "Radman" <radman@best.com>
- 20) [33004] Re: Duplicating message clarification
by Paul Harden <pharden@aoc.nrao.edu>
- 21) [33005] New emtech kit completed
by Brett Gazdzinski <Brett.Gazdzinski@mci.com>
- 22) [33006] Norcal 20 VFO
by "Tom Samples KB0YZY" <tomsa01@swbell.net>
- 23) [33007] Re: Norcal 20 VFO
by Bruce Muscolino <w6toy@erols.com>
- 24) [33008] Re: Solar power for hiking (long)
by Mark McPherson <markm@teleport.com>
- 25) [33009] Re: Happy '99 viruse found 2/12/99
by "Duane" <duane@flinet.com>
- 26) [33010] Re: Duplicating message clarification
by Bob Patten <n4bp@bc.seflin.org>
- 27) [33011] NorCal Sierra QSK
by "Paul Christensen" <paulc@mediaone.net>
- 28) [33012] Reading the K5FO QRP-L Archives CDROM verison 2/4/99
by Sam Billingsley <SBillingsley@usaninc.com>
- 29) [33013] Happy99
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 30) [33014] FW: Reading the K5FO QRP-L Archives CDROM verison 2/4/99 *correc
tion and clarification*
by Sam Billingsley <SBillingsley@usaninc.com>
- 31) [33015] AEA AT-300/AT-3000 ?
by James Skalski <jskalski@buffnet.net>
- 32) [33016] FS: Misc. Items
by "Ed Pacyna" <pacyna@worldnet.att.net>
- 33) [33017] NC20 Problem
by "Robert W. Shaw" <lycott@fox.nstn.ca>
- 34) [33018] telescoping antenna
by Wa2eaw@aol.com
- 35) [33019] Re: Reading the K5FO QRP-L Archives CDROM verison 2/4/99
by Chuck Adams <adams@ticnet.com>
- 36) [33020] RE: Reading the K5FO QRP-L Archives CDROM verison 2/4/99
by Sam Billingsley <SBillingsley@usaninc.com>
- 37) [33021] Re: Misc. Items
by "Joe S" <joe@quadj.com>
- 38) [33022] Re: New emtech kit completed
by Dave Sjolín <sjolin@swbell.net>
- 39) [33023] I don't want to build another thing!
by Jeff Grudin <grudin@pacific.vdbs.com>
- 40) [33024] Valentine's Day Alert.... (!)
by "Radman" <radman@best.com>
- 41) [33025] FS: Kenwood TH-78A
by K4AHK@ix.netcom.com
- 42) [33026] Re: Norcal 20 VFO
by Ed Loranger <we6w@juno.com>

- 43) [33027] FS: OMNI VI PLUS
by "Paul Helbert, Wv3j" <phelbert@rica.net>
- 44) [33028] FB40 contacts!
by "George Heron" <gheron@nac.net>
- 45) [33029] NorCal20 - First Impressions
by Bill & Merleigh Jones <kd7s@psnw.com>
- 46) [33030] FIREBALL PLUS TO FIREBALL PLUS QS0!
by Ken Newman <N2CQ@citnet.com>
- 47) [33031] Slight chirp on 38-S
by "Rob Dey" <rdey@myhost.com>
- 48) [33032] NA Sprint
by Ron Stark <ku7y@dri.edu>
- 49) [33033] NC20 - Grounded Bit/Soldering Iron
by John Bohnert <johnb@elmhurst.edu>
- 50) [33034] ARCI INFO
by K4NK@aol.com
- 51) [33035] Re: AEA AT-300/AT-3000 ?
by James Skalski <jskalski@buffnet.net>
- 52) [33036] PSK31 first contact
by Bruce Grubbs <bog@flagstaff.az.us>
- 53) [33037] Re: NA Sprint
by "Kevin F. Glynn" <kfglynn@prodigy.net>
- 54) [33038] test
by "chris" <guardian@mvtel.net>
- 55) [33039] TEST
by flruark@webtv.net (Floyd Ruark)
- 56) [33040] Re: soldering station (on sale !)
by Bob Kelllogg <ae4ic@nr.infi.net>
- 57) [33041] 7040 area may be crowded this weekend
by Anita och Lars Olsson <anita.lars.olsson@telia.com>
- 58) [33042] Cap Orders: The End, for now
by wb2vuo@juno.com
- 59) [33043] FOX: Team scores (fwd)
by Bruce Rattray <rattray@gpfn.sk.ca>
- 60) [33044] Re: [ARCI INFO]
by Roy Lincoln <wa4dou@usa.net>
- 61) [33045] cd-roms
by mike kuehn <w9ky@iquest.net>
- 62) [33046] Re: Reading the K5FO QRP-L Archives CDROM verison 2/4/99 *correction
and clarification*
by "Harry, WA3PTG" <hhurst@delaware.infi.net>
- 63) [33047] Caps: Orders NOT Yet Received
by wb2vuo@juno.com

Date: Sat, 13 Feb 1999 19:45:52 -0500
From: "Mark Paley" <mpaley@wcnet.org>

To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [32985] soldering station
Message-ID: <001701be57b3\$60c2e360\$adab85cd@mpaley>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My soldering station, a Taiwanese knockoff of a Weller-type station, has gone south. I'm looking to replace it possibly with a Weller, unless someone has a better suggestion. I don't want to spend an arm and the better part of a leg for one. Any ideas?

Mark Paley--KF8KL--
mpaley@wcnet.org
ARS #505

Date: Sat, 13 Feb 1999 19:45:17 EST
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [32986] Caps: Orders Received, not shipped
Message-ID: <19990214.004359.5055.0.wb2vuo@juno.com>

Thanks to the holiday, these orders will not go out until Tuesday. My maildelivery is later than the window is open in the P.O.

I still have parts, and I have heard from 80% of the List Members that asked about the caps. Ii will have a total remaining to post mid-week. If you have sent your check/MO/Cash (Yes, there's been a few envelopes stuffed with CASH, makes me feel like a Washington politician...) and you are NOT on the lists as of yet, then the P.O. still has the envelopes somewhere, but not here. I will post as they come in...

Here's the orders waiting for Tuesday:

Kevin Gibson (No call given)
Brad Hernlem (No call given)
Mick Ishmael (Ditto)
KT1VT
WB4EXW KS4HQ W4JEF WB4JLY N4SX WB4TPW
KH7MR
AB8DF
W9UQB W9ZM

Hang in there and keep building!

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp.
Trustee, B/BAMS club station and the NQ2RP/B 10 Mtr QRPP beacon
"My night light runs more power than my Rig!!!"

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 13 Feb 1999 19:46:48 -0500
From: "John J. McDonough" <jjmcd@tm.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [32987] QSLMaker 2.0 now available
Message-ID: <001301be57b3\$8450c180\$010044c0@mdp23b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey guys

Couldn't deal with the 45WPM code in the NA Sprint so I thought I'd post this note. I've uploaded QSLMaker 2.0 to my website (you can go directly to <http://users.tm.net/jjmcd/qslnmake.htm>). Version 2.0 includes a number of features folks have asked for:

- You may now enter QSO information for up to 100 QSOs which will be printed on the card
- You may import QSO information from VE6YP's Icom Radio Control + Logging
- If you are using a logging program which prints the QSO information on a label, you can have QSLMaker leave a blank space for that label
- The help file is more complete and context sensitive help now works on dialog boxes
- Previously, you could select the font color from the font dialog, but that only allowed 16 colors. Now each dialog which allows font selection also allows the more complete choose color dialog to be launched to select the font color.

- Bold and Italic now work for all text except the call, which is always extra-bold
- The sizes of the boxes in the info box have been made a little more appropriate.

I'm looking over some other logging programs and expect I'll add imports from a few more pretty soon. If anyone has some particular favorites let me know. It's hard to tell what people are using. Meanwhile, enjoy.

As always, QSLMaker is free.

72/73 de WB8RCR <http://users.tm.net/jjmcd/>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Sat, 13 Feb 1999 16:49:38 -0800 (PST)
From: Jeff <fantbb@yahoo.com>
To: qrp qrp <qrp-l@lehigh.edu>
Subject: [32988] Wanted ZM-1,2 and MFJ 9020
Message-ID: <19990214004938.3736.rocketmail@send106.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

After recovering from the great happy times scare. I'd thought hmmm after that close brush (it was attached as a uuencoded file but I didn't run it) what little goodies do I need for my QRP collection. Well I am hoping that there is a ZM-1,2 or a MFJ 9020 floating around out there that needs a good home. I did send email to someone who had ZM-1 for sale but I think the happy times got him. 8-)
So anyone have either of these for sale?

Jeff

==
Jeff Jones
AB6MB
NorCal QRP Club #65, QRP-L #1780
CW Forever!!!
Ghost Hunter
Owner of the Delta MudCats fantasy baseball team
Long live Manchester United and the Oakland A's!!!!!!

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Sat, 13 Feb 1999 20:18:43 -0500
From: "Ed Tanton" <n4xy@mindspring.com>
To: "Antennas Reflector" <antennas@qth.net>
Cc: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Subject: [32989] Main 160-80-40 ANT totaled
Message-ID: <002601be57b7\$f61c6400\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well folks... after surviving a hurricane several years ago that reached the Marietta/Atlanta area (lost one BIG tree)... my GAP DX Voyager was basically totaled this week. A 20+ ft long 5 in limb dropped on several layers of the dacron guys at once, pulling the antenna enough to bend it in half. Almost every vertical piece was bent, twisted, or crumpled. A solid 1.5 inch insulator was sheared. Even the top hat was crunched. There was one dacron guy that apparently bore the brunt of the force and snapped. I have never seen one of these break. Gotta call State Farm on MON and hope my Homeowners' Insurance will take care of it. I will almost certainly replace it with another. It was only average on 160-considering the relative real estate and trouble, but worked very well on 80 & 40M.

72 / 73 Ed N4XY

Ed Tanton N4XY EMAIL: n4xy@mindspring.com
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

~~~~~  
"Think you can, think you can't:  
either way you're right!" Henry Ford  
~~~~~

Date: Sat, 13 Feb 1999 19:23:55 -0600

From: Jacob <alfa33@scn.org>
To: QRP-L@lehigh.edu
Subject: [32990] ::: PBS SHOW OF INTEREST :::
Message-ID: <3.0.6.32.19990213192355.007bcb90@scn.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

OK gang,

This is not about QRP, but it does involve CW...a subject dear to us all!

PBS will air the show THE AMERICAN EXPERIENCE on Monday, February 15 at 21:00:00 (Eastern time). The title is "Rescue at Sea" and deals with the "new" technology known as wireless and how it helped to save many lives on two ill-fated ships. Check your local listings.

I've got my VCR timer set!

73,

Jacob Worthington
AA4FM

Date: Sat, 13 Feb 1999 18:31:54 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [32991] Back on 30m at last! (VE-AZ Sked?)
Message-ID: <199902140131.SAA24035@usr07.primenet.com>

Howdy Folks,

Finally, after nearly two years, finished building/aligning the 30m module for my Sierra today (wasn't urgent until my QRP+ croaked). Probably take me the rest of my life to build a K2 at that rate. :-)

Hooked it up to the HB vert, heard N4LRA (Bill) in VA calling CQ at around 10.114, fired off my callsign, and a very nice chat ensued. Forgotten how much I loved 30m! Great ragchewing band! Bill was a nice fellow to yack with too. Quite pleasant experience all around.

Been so busy with other things (ham- and non-ham related) that I haven't had a chance to just relax for an extended chat on the air. Ah..... felt good.

For those of you who haven't spent much time on 30m, it is indeed a great ragchewing band. Nice and relaxed, and everyone with a General or higher license can work the entire band. Nice for hunting that grey-line DX or late-night PacRim openings. Which I plan to do with zeal now that I'm QRV on 10MHz again. :-)

So... A long while ago, a VE was asking for a sked with AZ on 30m. If you still need one, please let me know! I've got a vert w/ 34 radials, pruned to resonance, and 5 watts to burn. :-)

Hope everyone's weekend is going well. Time for me to run pick up the pizza. Ham and pineapple, naturally....

(Hey ScQRPions - nice seein' y'all today!)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Sat, 13 Feb 1999 20:07:18 -0800
From: w4bws@juno.com
To: nodule01@mail.coin.missouri.edu
Cc: qrp-1@Lehigh.EDU
Subject: [32992] Re: WTB (Don't Laugh): NorCal 20
Message-ID: <19990213.204201.-78257.0.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang, I saw one of these fine rigs partially assembled at Orlando today. This is one "FINE" job and "How do they get all those parts on that small board?" I'm in line after Nathan.
Great to meet all you fine QRPers at Orlando but several of us were QRO in the waistline. Gal friend says "more time on QRP less at the feed bag", ain't she great!!

Don Sanders W4BWS
694 E. Eau Gallie Blvd
Satellite Beach ,FL 32937
My favorite QRP rig glows in the dark

On Fri, 12 Feb 1999 15:32:37 -0600 "Nathan Odle"
<nodle01@mail.coin.missouri.edu> writes:
>WANTED TO BUY: NorCal 20. I've seen a couple of these come across
>the list
>and never get back in time to get one. If you're contemplating
>selling
>yours, please let me know. I'm highly interested in getting one, and
>don't
>think I'm fast enough to response to the offers ;)
>
>TNX es 73,
>Nathan
>KB0NNV
>
>

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Date: Sat, 13 Feb 1999 22:50:18 -0000
From: "Kim Andersen" <ox3fv@greenet.gl>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [32993] Solar power for hiking
Message-ID: <000501be57a3\$3e6d7880\$f2e2b1c2@ox3fv>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi

I need your help.=20
This summer I plan a 14 day trek in the mountains in the northern part =
of Sweden. I plan to bring a QRP rig. I have a 3.5 Ah battery, but need =
a way to charge it. I am thinking of buying a solar cell. But the big =
question is: wich one, how big, and what kind??. =20

I plan to build the new K-2 rig and bring with me. The antenna will be a = multi-band (PLPV) ground plane taped to my 10m telescopic glasfiber = mast.

This set-up will also be used on trips in the great greenland nature.

73 de Kim/OX3FV

Kim Andersen
ARS OX3FV
Box 3
ZIP 3930 Groennedal
GREENLAND

ox3fv@greenet.gl

Date: Sat, 13 Feb 1999 21:03:12 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: <qrp-1@lehigh.edu>
Subject: [32994] FS: 40 & 80 M XTALs.
Message-ID: <008501be57be\$2dfcd660\$f61105d1@vince>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The 40 M rocks are in FT-243 holders (Phoenix Crystals) and the 80 M are in T-2 (a larger FT-243) holders. I have the following frequencies:

3507.5
3517
7005
7010
7015
7020
7025

Price for all 7 xtals is US\$40.00, includes s/h to the lower 48 and the top 10 :))) .

73 de Vince, VE3VFN.

Date: Sat, 13 Feb 1999 20:21:15 -0600 (EST)
From: Jim Glover <psykey@okcforum.org>
To: qrp-1@lehigh.edu, okcham@okcforum.org
Subject: [32995] Sunday morning NVIS practice update
Message-ID: <199902140221.UAA00343@okcforum.org>
Content-Type: text

We've picked a site for our Sunday morning NVIS test. We'll be at the Red Rock Canyon State Park, about 50 miles west of Oklahoma City. I drove out there today to scout it out. I was able to get into the OKC 145.210 repeater (part of the Buffalo Link) from a spot near the entrance to the park, and found several good spots for setting up a portable HF station down in the canyon. The plan is to take two vehicles, and have one of us set up the HF station for NVIS down in the canyon, while the other is at the high point, where we can keep in touch with some of the stations listening for us, through the link.

We can be sure that the only way out of the canyon for our signals will be (nearly) straight up. Near Vertical Incidence, for sure!

We plan to arrive around 9:00 AM, and after a few minutes to set up, we'll begin operation on 80 meters. Later on, as the ionosphere becomes more active, we'll switch to 40 meters. (And then, after all that, we plan to do some rappelling...but that's another story!)

Please plan to try to contact us. When you contact us (or give a signal report over the link) we'd like to know your location (lat/long would be great, if you know it), our signal strength, the background noise at your location, and a description (including height) of your antenna.

Callsigns will be:

WB5UDE, Jim, on SSB
WB5UDE, Jim, or KD5AMB, Mark, on CW

Frequencies will be:

80 meter SSB 3870
80 meter CW 3700
40 meter SSB 7240
40 meter CW 7125

Even if you don't have a license for 80 or 40 meters, you can still help us out. Just listen for our signals, and let us know, over the link, what you hear. We'll let someone know, from time to time, over the link, what frequency/mode we're operating at the moment, and hopefully, take some signal reports over the link, too.

If you want more info about what NVIS is all about, you can check out my (still not complete) web page about NVIS at:

<http://www.qsl.net/wb5ude/nvis/>

--Jim WB5UDE

Date: Sat, 13 Feb 99 21:37:41 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-1@lehigh.edu>
Subject: [32996] Elmer200: LC Frequency Calcs es Q [long]
Message-ID: <E10BsLd-0005bU-00@smtp.ticnet.com>

Gang,

What brought about this topic and posting was several things in combination. First was the observation and reading of the captions for figures 14.16 and 14.15 in Chapter 14 of the ARRL Handbooks (1995 or later editions). And I quote from Fig. 14.15 on page 14.18:

"Generally, VFOs can be adapted to work at other frequencies (within the limits of the active device). To do so, compute the adjustment factor: $f(\text{old})/f(\text{new})$. Multiply the value of each frequency-determining or feedback L or C by the factor."

Since I have yet to read the entire handbook, I have yet to encounter the "feedback factor" discussion and/or its derivation, so let me take a stab at it here. It is important enough IMHO to take a moment to examine several things.

Also I see postings and discussions about or asking about the conversion of a rig from one band to another. The LC combo is a part of that conversion. There are many more issues that need to

be also overcome or worked on in this process, but that is for another time or author.

Most of us are used to the formula

$$f = 1/(2\pi\sqrt{LC})$$

for calculating resonant frequency of an LC circuit, either parallel or series resonant. In Physics, Engineering and Mathematics the formula and discussions are simplified a bit by using the circular frequency, ω , and the formula $\omega = 2\pi f$. Then the above formula becomes

$$\omega = 1/\sqrt{LC}$$

Assume that we have some beginning circuit resonant at ω sub zero, $\omega(0)$ or ω_0 in ASCII.

$$\omega(0) = 1/\sqrt{L(0)C(0)}$$

and at resonance $X(L) = \omega L = X(C) = 1/(\omega C(0))$

Now we want to move to another resonance at $\omega(1)$. Let's assume that we want the reactance to remain the same, then

$$\omega(1) = 1/\sqrt{L(1)C(1)}$$

$$X(L) = \omega(0)L(0) = \omega(1)L(1)$$

factoring out the 2π and reducing the equation we get

$$f(1)/f(0) = L(0)/L(1)$$

which means that as we increase $f(1)$, i.e. go up in frequency, L will decrease and $L(1) < L(0)$. In a similar manner if $f(1) < f(0)$ then $L(1) > L(0)$. We can write the formula in the form

$$L(1) = (f(0)/f(1))L(0) \text{ and in a similar manner}$$

$$C(1) = (f(0)/f(1))C(0) \text{ by using}$$

$$X(C) = 1/(\omega(0)C(0)) = 1/(\omega(1)C(1)) \text{ and rearranging.}$$

I always check my formula and arithmetic for logical derivations and to further reduce the possibility of error. Note that I did not and will never say eliminate error(s). :-)

Starting with

$$\omega = 1/\sqrt{L \cdot C} = 1/\sqrt{L(1) \cdot C(1)}$$

$$\omega = 1/(\sqrt{(f(0)/f(1)) \cdot L(0) \cdot (f(0)/f(1)) \cdot C(0)})$$

$$\omega = (f(1)/f(0)) \cdot (1/\sqrt{L(0) \cdot C(0)})$$

$$\omega = (f(1)/f(0)) \cdot \omega(0) = 2\pi \cdot f(1) = \omega(1)$$

which is what we would expect.

Let's say we are using toroids to get the L values that we need.
A few simple things to keep in mind:

- A. $Q = X(L)/R$ where $X(L) = X(C)$ at the resonant frequency
- B. $R = K \cdot N$, where K is the resistance for one turn
- C. $L = K' \cdot N^2$ where K' is the factor dependent upon the coil type, size, etc.

Let's say we have at resonance frequency $f(0)$, $L(0) = K' \cdot N(0) \cdot N(0)$,
then for resonance at $f(1)$

$$L(1) = K' \cdot N(1) \cdot N(1) = (f(0)/f(1)) \cdot L(0) = (f(0)/f(1)) \cdot K' \cdot N(0) \cdot N(0)$$

or rearranging to solve for $N(1)$ in terms of the original turn count

$$N(1) = \sqrt{f(0)/f(1)} \cdot N(0)$$

Let's also say that we are converting up by a factor of 2 in frequency like moving from 40M to 20M. Then, $f(0)/f(1)=0.5$, and $\sqrt{0.5}=0.707$, so we reduce the number of turns by 30%. Assuming we use the same gauge wire, we reduce R by 30% and raise the Q by 40%. $Q(0)=X(L)/R$, $Q(1)=X(L)/(0.707 \cdot R)=1.41 \cdot Q(0)$. So far this looks pretty good, but let's now go the other way; from 20M to 40M. Using the same logic and formulas, $N(1)=\sqrt{f(0)/f(1)} \cdot N(0)$, $f(0)/f(1)=2$, $\sqrt{2}=1.414$, we increase the number of turns by 41%, increase the internal resistance of the coil by 41% and we reduce the Q by 30%. If we started with a Q of 15 then we'd wind up (no pun intended) with a Q of 10 at 40M.

And this would probably get worse because of the increased number of turns we'd move to a smaller gauge wire and wind up (again no pun intended) with an even higher R and a further reduction in the Q of the LC circuit.

Now if you can tolerate the change in reactance values away from the resonant frequency and if off the shelf values exist for C and/or L you might consider the following. If moving up in frequency in converting, leave L constant and decrease C by the factor $(f(0)/f(1))^2$ (the square of the ratio). This will increase the Q by the factor $(f(1)/f(0))$ which would be a factor of 2 in going from 40M to 20M. Reason: R stays constant and $X(L)$ increases by 2. Assuming all other factors remain unchanged. The capacitance would need to be reduced by a factor of 4, which might be a problem if we already started out with a low value.

If going down in frequency, the increase C by $(f(0)/f(1))^2$ while leaving L constant. This looks good on paper but there are several other issues that you must consider at the same time.

The drift characteristics of the tuned circuit may be drastically changed dependent upon the temperature coefficients of the components. Remember the component values are changed by a factor of

$$(1.0 + \text{delta_temperature} \times \text{thermal_coefficient})$$

for each component.

If the PRODUCT of the temperature coefficients of L and C was determined to minimize the drift at the original design frequency and we come along and change L and/or C we could get unpleasant results from the changes. So you have to work through this in the changes.

But don't let all this deter you from going ahead. Make the calculations, build it, and then measure the results. This is the way to learn. You'll make mistakes but you'll will learn a whole lot more by doing it that by sitting on the sidelines thinking about it. Go for it.

If you take something like the SW-40+, SW-20+, and SW-30+ or any other rig single band rig that has been converted to several bands you can see how the respective designers worked through the issues.

For research purposes. Look at the VFO ranges of frequencies that typical rigs use (priced under \$200 and no digital VFO(s)). You'll note that they usually between 2 to 5MHz. Frequency stability and drift become real hurdles to overcome at the higher frequencies. You can get around this by using a stable oscillator around 3MHz or so and heterodyning it to a higher frequency. This is used in several places by several kits, both new and old.

OK, study this and make sense of it and we'll try to use it later.

The point being that if you want to modify a resonant circuit for another band, then work through the math and see what you get.

It will be interesting to see what happens for those of you contemplating moving the NC20 to another band. There are other issues on the IF frequency, etc. Who will be the first with a NC20-40? :-) We can't call it a NC40 so I guess the notation will go to NC20-20, NC20-40, or whatever.....

Enjoy and let me know if you learned anything from this exercise. So many exercises and so little time.

FYI

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sat, 13 Feb 99 22:02:33 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-1@lehigh.edu>
Subject: [32997] Duplicating message clarification
Message-ID: <E10Bs3g-0005g3-00@smtp.ticnet.com>

Gang,

Got one email for a clarification on the duplicating or quoting messages back to the reflector.

The problem is not with quoting a portion of a previous message. It is with individuals that insist upon repeating the entire message that has been previously posted. It just doesn't make sense in most cases and especially where the previous message was lengthy.

All that I and Jim and the rest of the readers are asking is common sense. Just use what you need to repeat. I know it takes time but hopefully this will help determine what you think is important. Just don't be lazy and do learn to use the software and all its features for email.

My trigger level is high and I can live with what is going on and the delete button is handy. It is just all the sideline email that I get on complaints. I have to listen to them you don't. :-) This eats up a lot of my time.

Thanks and be kind to your web-footed friends....

dit dit

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sat, 13 Feb 99 22:07:50 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-1@lehigh.edu>
Subject: [32998] Re: Elmer200: LC Frequency Calcs es Q [long]
Message-ID: <E10Bson-0005gz-00@smtp.ticnet.com>

Gang,

Ooops. Mistake on my part.

I did not see a reference yet in the HB on the "adjustment factor". I typed feedback factor which was in error.

My thanks to LB who caught this one and I'm sure I'll get other email before they read this correction. :-)

I did reread it several times before posting but errors do slip by.

FYI

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sat, 13 Feb 1999 23:10:51 -0500

From: S LYON <sslyon@worldnet.att.net>
To: ox3fv@greenet.gl
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32999] Re: Solar power for hiking
Message-ID: <36C64CCB.6E90E12D@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I've just re-visited SOLAR ELECTRIC INC. web page and found my likely choices, either the non-flexible US5 or the flexible MBC131. Similar ratings: .35A at around 16.5V. I spoke to them last year and the guy said "hook it up directly for charging... you'll never bull out a gelcell with it." their web site (in progress) is

<http://www.solarelectricinc.com/products.htm>

They seem to be among the most economical.
Let us know how your solar project goes! 72 -s-

Kim Andersen wrote:

>
> Hi
>
> I need your help.
> This summer I plan a 14 day trek in the mountains in the northern part of Sweden. I plan to bring a QRP rig. I have a 3.5 Ah battery, but need a way to charge it. I am thinking of buying a solar cell. But the big question is: wich one, how big, and what kind??.
>
> I plan to build the new K-2 rig and bring with me. The antenna will be a multi-band (PLPV) ground plane taped to my 10m telescopic glasfiber mast.
>
> This set-up will also be used on trips in the great greenland nature.
>
> 73 de Kim/OX3FV
>
> -----
> Kim Andersen
> ARS OX3FV
> Box 3
> ZIP 3930 Groennedal
> GREENLAND
>
> ox3fv@greenet.gl
> -----

--

'Seab' Lyon - AA1MY
Beacon NY USA FN-31
QRP-L 574 ARCI 9253

Date: Sat, 13 Feb 1999 22:27:57 -0600
From: The Boices <boice@bigfoot.com>
To: ox3fv@greenet.gl, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: vainio@bigfoot.com, k0jv@bigfoot.com
Subject: [33000] Re: Solar power for hiking (long)
Message-ID: <3.0.6.32.19990213222757.00918e80@mailbox.arn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>This summer I plan a 14 day trek in the mountains in the northern part of Sweden. I plan to bring a QRP rig. I have a 3.5 Ah battery,
<snip>
>I plan to build the new K-2 rig and bring with me.

Bueno idea, Kim. There's an excellent article on using photovoltaics ("pv") in the April 1996 QST, pages 33 - 37. Also see QST May 1995, pages 60 - 63. They both give a lot of info on system components, sizing, batteries, etc.

But the basics: from the K2 manual, it will draw around 110 mA in its most efficient mode on RX, and (I'm not positive on this) around 1 amp @ 5W TX, and 2 amps @ 10W TX, into a decent SWR. Elecraft states it may pull upwards of 3A @ 10W TX into a poor SWR.

Now, since you're portable and want to economize on the battery usage, let's just say you stick to the 5W level, or around an amp for TX. Let's see if I can get this right for CW (I haven't operated SSB for over 10 years - no rig capable of it - so someone else, or a book, will have to provide duty cycle info for it). Roughly estimated, on CW you'll be RX half the time, TX half the time. But, due to QSK, your actual key-down TX time will only be, say, 50% of that, or 25% of the total time in a QSO. In a worst case (from a battery's point of view) scenario, say you're in a QSO 50% of the time - possible, with a good QTH, antenna and solar flux. And, say you operate 4 hours a day.

4 hr radio on session:
2 hrs RX (no QSO): $.110A \times 2 \text{ hours} = .220 \text{ amp-hours (Ah)}$
2 hrs QSO: $75\% \text{ RX} = .110A \times .75 \times 2 \text{ hrs} = .165\text{Ah}$; $25\% \text{ TX} = 1A \times .25 \times 2\text{hrs} = .5\text{Ah}$
Total = $.220\text{Ah} + .165\text{Ah} + .5\text{Ah} = .885\text{Ah}$ (per 4 hour operating session)

Now, to preserve the life of the battery, you don't want to drain it down below 50% of its capacity (much less, in fact, if you can help it, but for your short trip, we'll go with 50%). $3.5\text{Ah} \times .50 = 1.75\text{Ah}$ usable capacity.

Actually, you can go about 2 days worth of operating (4 hour sessions) without recharging the battery or letting it drop below the 50% mark ($.885\text{Ah} \times 2 \text{ days} = 1.77\text{Ah}$ - close enough). This is good news should you experience rain for a day or so, as you can keep operating.

As far as recharging goes, there can be some differences of opinion. My reference books are at work, so I'll have to take a stab here and say that, in the peak of summer, northern Sweden will get 4 hours of peak sunlight per day. This is probably WAY too low, so I'll check it out and update this letter, but it gives us a starting point. This means that although the sun will be up for however many hours, only 4 hours (roughly around noon) will be direct enough to allow a pv panel to generate its full output. To keep your battery charged up each day (not entirely necessary, but a worthy goal due to overcast or rainy days), you need to replace what you've used for the rig; i.e. .885Amp hours. At 4 peak sun hours, that means you need about .220Amps (or 220mA) going into the battery. My flexible Uni-Solar pv panel rated at 5 watts puts out about 325mA peak, so this is plenty. It pumps out 22 volts short-circuited, which will drop to the level needed by the battery to allow charging. I bought mine (a factory blemish but works like new, but I don't think they have these anymore, but you can always ask) from Solar Electric Inc. (<http://www.solarelectricinc.com/>). They currently (apparently new models) sell for \$59, and as I said, are flexible. You can bend them into a broad circle (lengthwise). This makes them very durable. They also have grommets at each corner, making attachment of them to packs, etc., very easy and secure. FWIW, they are of the amorphous type, bonded to a stainless steel backing, as opposed to crystalline (or a sub-type called polycrystalline), which are made from surplus silicon ingots from the semiconductor industry, and always in a rigid frame.

If you want to do it right, use a charge controller, such as the Micro M sold by Sun Light Energy Systems (<http://www.seslogic.com/>), coincidentally run by a ham. This is a real simple controller, and is also in the recent ARRL Handbooks. It runs \$25 postage paid fully assembled in the USA. A controller will make sure the battery doesn't get overcharged. I have one and it works great on my 3.5Ah gel cell.

However, if you pay attention to what you're doing, you won't need one. As long as the battery doesn't get "too" overcharged each day (i.e. the power it receives from the panel isn't too much greater than is withdrawn each day by the K2), all will be fine. Just use the K2's internal voltage meter to check the battery's voltage during afternoons of good sun, or if you didn't operate too much the previous day/evening. If the battery hits what

I think is around 14.4 - 14.6 volts for a gel cell, disconnect the battery.
That's all there is to it! Just keep the panel strapped to the outside of your pack during the day to catch the sun, and take it off while you take breaks, or at least orient your pack to the sun for the best rays. This is also assuming you won't be in deep forest with limited sunlight.

I'm not an employee of any company referenced above, just a happy customer.
I work for the US Dept of Agriculture's laboratory in Bushland TX, where, amongst all the cattle and fields, a small group of us do applied wind and pv research.

Hopefully I didn't make too many errors, and this helps out with your trip planning. Renewable energy is the only way to go!

73,

Mike Boice, KW1ND
Canyon TX
QRP-L # 576

Date: Sat, 13 Feb 1999 22:51:40 -0600
From: "Nathan Odle" <nodle01@mail.coin.missouri.edu>
To: <qrp-l@lehigh.edu>
Subject: [33001] WTB: Rainbow Tuner kit
Message-ID: <000101be57d5\$b6361200\$0100a8c0@elwood>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Saw that the NJ club is out of Rainbow Tuner kits... Does anyone know where else I can get one? Thanks in advance es 73...

Nathan
KB0NNV

Date: Sat, 13 Feb 1999 22:51:17 -0600
From: The Boices <boice@bigfoot.com>
To: mpaley@wcnet.org, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [33002] Re: soldering station
Message-ID: <3.0.6.32.19990213225117.00929c50@mailbox.arn.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 19:45 99/02/13 -0500, Mark Paley wrote:

>My soldering station, a Taiwanese knockoff of a Weller-type station, has
>gone south. I'm looking to replace it possibly with a Weller, unless
>someone has a better suggestion.

I won't say "better," but check out the Edsyn 951SX model, on sale for \$75 from Tech America this month. It's a real nice unit (got mine earlier this week), and seems to be built quite well, and is American made. Edsyn also has website you can peruse. <http://www.edsyn.com/>

73,

Mike Boice, KW1ND
Canyon TX
QRP-L # 576

Date: Sat, 13 Feb 1999 22:01:52 -0800
From: "Radman" <radman@best.com>
To: <mpaley@wcnnet.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33003] Re: soldering station (on sale !)
Message-ID: <199902140558.VAA09194@proxy3.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Mark et al,

The Weller WTCPT solder station is on sale at Wassco for \$75.95.
URL: <http://www.wassco.com/was/wtconoutstat.html>
or call: 1-619-679-8787

WTCPT tips are on sale at: Tool Town for \$2.07 ea.
(excellent assortment of 700 & 800 degree tips)
URL: <http://www.tooltown.com/ptdeal.htm>
or call: 1-425-485-8055, Fax: 1-425-485-7819

standard disclaimers, etc, etc :-)

Happy Soldering,

GL - 72 - Conrad Weiss - NN6CW

>>>My soldering station, a Taiwanese knockoff of a
Weller-type station, has gone south. /// Any ideas?

Date: Sat, 13 Feb 1999 23:01:25 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Chuck Adams <adams@ticnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [33004] Re: Duplicating message clarification
Message-ID: <Pine.SOL.3.91.990213225512.17278A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 13 Feb 1999, Chuck Adams wrote:

> The problem is not with quoting a portion of a previous
> message. It is with individuals that insist upon repeating
> the entire message that has been previously posted.
<snip>

You mean citing just the pertinent part you wish to comment on ...
kinda like this? :-) Consider this EXHIBIT A.

Thanks for the reminder Chuck. I know when I read a post on qrp-l
and see 2 or 3 arrows (>>>) before the text, it gets the delete key
before I bother to read a word.

72, Paul NA5N
Proud user of PINE for email.

Date: Sun, 14 Feb 1999 01:17 -0500 (EST)
From: Brett Gazdzinski <Brett.Gazdzinski@mci.com>
To: QRP-L@lehigh.edu
Subject: [33005] New emtech kit completed
Message-ID: <19990214061921.DZZW16006@localhost>

Hello all QRP lovers!
I received my nw80 kit last Thursday, and got it going on Friday.
I had a few problems building it, with some changes that were done

to the rig to improve it, but were not totally included in the manual, and my mixing up the capacitor values and codes a bit.... 330 pf, 331, 332, 104 .1 ect.

I also got quite a few extra parts!, was missing one resistor(4.7k) and had to change the value of one choke(maybe it was something I did).

A couple of things I noticed in the preliminary tests....maybe you experienced people on the list can tell me if they are normal for most QRP kits.....

The swr seems to affect the transmitter quite a bit, and with the 80 meter version of the kit, the receiver and transmitter adjustments wont hold for the whole band....you can tune the rig up for a portion of the band, but the rx sensitivity and tx power fall off somewhat quickly.

I don't have a problem with this, as I plan to hang out in the novice portion of the band for a while.

The rig is really nice! Its very stable, with almost no drift, a nice sounding receiver with good selectivity.

You can copy cw or ssb without much fuss or re tuning, and the rig also seems quite immune to shocks to the cabinet.

The transmit power can go over 7 watts, but you have to watch the swr. Nothing seems to get warm with extended key downs into the dummy load, except the driver transistor(lightly), and I added a small heat sink to it.

The design of the circuit board is very nice, the cabinet is nice, small, but with room for extra stuff and a battery inside.

The dial is calibrated quite well, considering the wide frequency range the rig will cover.

A neat kit indeed!

Brett
N2DTS

Date: Sun, 14 Feb 1999 01:52:06 -0600
From: "Tom Samples KB0YZY" <tomsa01@swbell.net>
To: <Wb4jjj@aol.com>
Cc: "Internet QRP Club" <qrp-l@Lehigh.EDU>
Subject: [33006] Norcal 20 VFO
Message-ID: <199902140743.BAA17365@mail-gw2adm.rcsntx.swbell.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Alan,

Double check the resistors installed in this section and verify color code,
check R14, (this is in section 6) shud be yellow / velvet / orange,
check R11, R12, (section 5) and R81 (part of your built in RF probe
circuit).

Hope this might help,

72 and 73

Tom Samples KB0YZY
QRP-L #1853 ARCI #9652 NORCAL #22145 CQC #522
Kansas City, MO

tomsa01@swbell.net

Date: Sun, 14 Feb 1999 03:07:55 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: tomsa01@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33007] Re: Norcal 20 VFO
Message-ID: <36C6845B.30C3@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Tom,

What color is "velvet"? I think you meant "violet".

Bruce

> Double check the resistors installed in this section and verify color code,
> check R14, (this is in section 6) shud be yellow / velvet / orange,
>

Date: Sun, 14 Feb 1999 01:19:55 -0800
From: Mark McPherson <markm@teleport.com>

To: boice@bigfoot.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33008] Re: Solar power for hiking (long)
Message-ID: <36C6953B.520708C9@teleport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The Boices wrote:

>
> >This summer I plan a 14 day trek in the mountains in the northern part of
> Sweden. I plan to bring a QRP rig. I have a 3.5 Ah battery,
> <snip>
> >I plan to build the new K-2 rig and bring with me.
>
> Bueno idea, Kim. There's an excellent article on using photovoltaics

<snip>

Mike,

Great analysis. But won't he also need to account for charging inefficiency? That is, an amp-hour removed from the battery will require something greater than an amp-hour returned, right? Any thoughts on this?

The whole thing sounds like too much fun!

Regards,
Mark McPherson
K7MPH

Date: Sun, 14 Feb 1999 04:38:28 -0500
From: "Duane" <duane@flinet.com>
To: <jlevro@mediaone.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [33009] Re: Happy '99 viruse found 2/12/99
Message-ID: <005a01be57fd\$c79dc2e0\$2c180ed0@flinet.com.duane>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have saved the last 3000+ messages from this group. I checked my files and found the happy99.exe file attached to a message from Jim the topic of the

duane@flinet.com
qrpl#710 AB4BE

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Sun, 14 Feb 1999 08:17:54 -0500
From: "Paul Christensen" <paulc@mediaone.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33011] NorCal Sierra QSK
Message-ID: <03b801be581c\$6e8e4a20\$eb2d8118@se.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Has anyone been successful at making their Sierra's QSK circuit run faster? The assembly/owner's manual indicates that changing C18 will affect QSK. However, if C18's value becomes too small, receive audio becomes distorted with a loud leading edge spike. Before I dig into the root-cause, I would like to know if anyone has any experience with this circuit. Thanks!

-Paul

Date: Sun, 14 Feb 1999 08:57:47 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>, "QRP-list (E-mail)" <qrp-1@blacksheep.org>, "klqrp_submit (E-mail)" <klqrp@waterw.com>, "_AAAA_NOGA_onlist (E-mail)" <nogaqrp@qth.net>
Subject: [33012] Reading the K5FO QRP-L Archives CDRom verison 2/4/99
Message-ID: <21E06269B00ED111BE9B00805F6D0FA3670257@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

It's a quiet cold morning in Atlanta, the fire is going, and the coffee is hot. Great time for reading history.

You haven't tried to get the qrp-1 archives on CD-ROM yet it is a hoot! Chuck has done a great service to the qrp community for attempting this effort.

Among other folders it has the qrp-1 daily digest folder with ALL days from 4/6/93 to 1/5/99. So if things get a little slow and the bands are closed you can always catch up on the history of the qrp-1 list.

I'm up to 5/6/93 now WOW the first 30 days of qrp-1 list history. I've already found three little treasures.

Info on QQ Index 1985 - 1982 from qrp-1 list msg 4/3/93 from:Jim KA0IQT
(Great Info now we need to be able to get those ARTICLES. Is ARCI listening?????)

Original Fireball Comments from 4/30/1993 qrp-1 message. (Comments about Harmonic analysis re: the Original Fireball)

Genesis of the North California QRP Club NORCAL 5/5/93 msg from Doug KI6DS declaring NORCAL a club

Just to show things haven't changed much the following excerpt from a 5/6/93 msg from Bruce Walker.

"From bruce@Think.COM Thu May 6 12:58:32 1993
From: Bruce Walker <bruce@Think.COM>
Date: Thu, 6 May 93 12:58:32 EDT
Subject: mailing list stuff

QRPers,

A couple of more administrative notes about the mailing list. First of all, including portions of previous messages in your replies to the list is OK, but please try to keep it to a minimum necessary for context. We generally don't need to see the whole original message every reply. Many people find it annoying to get three lines of reply which include thirty lines of original."

>>>>>snip>>>>>

You can feel the closeness of the group. Real problems, real discussion, real meat. It must have been a great time for those that were there. I know when a first starting on the list a year or so back I knew I had uncovered a great opportunity to share with like minded folks my passion - QRP. So move over Ade, Doug, Wes and Paul and make some room for some new blood. :-)

THESE CDROM's ARE AN ABSOLUTELY GREAT SERVICE TO THE QRP-L COMMUNITY. Thanks Chuck.

Life is too short to wait for the next Hamfest! So start building NOW.

Sam Billingsley AE4GX Atlanta,GA

Date: Sun, 14 Feb 1999 14:39:50 -0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [33013] Happy99
Message-ID: <003001be5827\$e1e98920\$07eab094@prsat0x1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I too received the 'worm' as others have, but what I wanted to pass on was some info on how to see if you have it and more importantly how to rid your pC of it. If anyone needs such info, let me know and will pass it on, rather than send it to the whole list.

Cheers.

.....

Frank G3YCC G QRP 042, G QRP Sales Officer.

QRP web page <http://www.homeusers.prestel.co.uk/g3ycc/>

Date: Sun, 14 Feb 1999 09:43:48 -0500

From: Sam Billingsley <SBillingsley@usaninc.com>

To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>, "klqrp_submit (E-mail)"

<klqrp@waterw.com>, "GQRP-list (E-mail)" <gqrp-1@blacksheep.org>,

"_AAAA_NOGA_onlist (E-mail)" <nogaqrp@qth.net>

Subject: [33014] FW: Reading the K5FO QRP-L Archives CDRom verison 2/4/99 *correction and clarification*

Message-ID: <21E06269B00ED111BE9B00805F6D0FA367025B@MAILSERVER1>

MIME-Version: 1.0

Content-Type: text/plain

I noticed two items I need to comment on:

>>>>snip>>>>

> Info on QQ Index 1985 - 1982 from qrp-1 list msg 4/3/93 from:Jim KA0IQT

> (Great Info now we need to be able to get those ARTICLES. Is ARCI

> listening?????)

>>>>snip>>>>

The Index range is 1985 to 1992.

Although Jim KA0IQT posted the Index it was compiled by Doug KI6DS. Thanks Doug.

I recommend that we all partition ARCI board members to republish ALL the journals on CD or paper copy. I'm willing to pay.

I think this is CDRom is referred to as Verison 1 not by the date 2/4/99

The following is from Chuck's original post. I don't know if the prodedure to get these CDRom's has changed but FYI on what I have.

-----Original Message-----

From: Chuck Adams [SMTP:adams@ticnet.com]
Sent: Thursday, January 07, 1999 9:07 AM
To: Low Power Amateur Radio Discussion
Subject: QRP-L CDRom #1 - offline backup

OK, here is the deal. You can get an ISO9660 disk with all the archives, a ton of digital pics from K5FO, stuff from other people, and I think it's over 400MB at the present time. I'll put the SPICE stuff on it along with all the models that I have and some PC software PD of course.....

This is version 1 and it needs a lot of work and will grow over the next year or so. It has all the archives from ftp.lehigh.edu unmodified and will be the offline backup just in case something happens and we all know about computers. The dates have been changed from 981201 to 19981201 as an example to become Y2K compliant. :-)

Noone is allowed to charge more than the costs of the medium, so this is not a money making project. In order to get a copy from me you must (and pay attention to the word) do the following.

Send a blank CD writeable disk to Chuck Adams, Box 181150, Dallas, TX 75218-8150. Enclose a return CD mailer with enough postage (remember the rates go up on the 10th of this month) to get it back to you and a carefully labeled mailer so the USPS doesn't lose it. The only thing that I should have to do is remove the disk, record it, put it back in the holder and into the mailer and drop it back in the mail. Minimum muss and minimum fuss is the key words here. :-) It will take me about 15 minutes or so to do each disk.

All you guys and girls with CD recorders can join in the project by just sending me the CD as per the instructions above. I expect to see this project grow offline with some HTML additions, some topic extraction work, etc. Stay tuned. I will be checking the mailbox every two days and if you want confirmation please include an email address neatly written so that I don't make an error and if I do you won't know about it. :-) ;-) >>>>>snip>>>>>

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

>>>> snip

Mike Boatright K04WX a member of our North Georgia QRP club (NOGA) got the CD from Chuck and passed them on the the NOGA members that were interested. We all were. Thanks Mike.

BTW I have ALL SPRATS (reprints), MILLIWATT (CD) and NORCAL (reprints). I really want to have the ARCI QRP Quarterly CD or reprints to add to my collection of US QRP history. This is the first time I've seen this level of detail on the contents of the older ARCI journals.

> Sam Billingsley AE4GX Atlanta,GA

>

>

>

Date: Sun, 14 Feb 1999 10:07:43 -0500 (EST)
From: James Skalski <jskalski@buffnet.net>
To: qrp-1@Lehigh.EDU
Subject: [33015] AEA AT-300/AT-3000 ?
Message-ID: <Pine.LNX.4.03.9902141000310.806-1000000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I wonder if anyone has one of these tuners? I have the meters that come in the tuners (they are beauties) and would like to incorporate the meter into a tuner or into a separate box. Do you have a copy of the schematic for the SWR portion of the tuner? How if at all is it different from published circuits.? I think mfj used the same meter. It doesn't appear to have any active devices. It might make a neat kit, a cross needle, swr computing swr bridge. But first I have to build a working model.

73,

Jim N2go

Date: Sun, 14 Feb 1999 10:44:52 -0500
From: "Ed Pacyna" <pacyna@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [33016] FS: Misc. Items

Message-ID: <000d01be5830\$f7186c40\$3bcd4e0c@ed>

MFJ Model 815B, Cross Needle SWR/WATTMETER HF

New, \$35 + Ship

USR Model 839 Sportster External 33.6 Faxmodem

New (still in factory blister wrap), \$35 + Ship

Ed, W1AAZ

Date: Sun, 14 Feb 1999 10:45:24 -0500
From: "Robert W. Shaw" <lycott@fox.nstn.ca>
To: <qrp-1@lehigh.edu>
Subject: [33017] NC20 Problem
Message-ID: <3.0.5.32.19990214104524.007b0d90@fox.nstn.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

In Section 10 I get a "0" responding from AFA, indicating no VFO signal getting to the AFA. In Section 6 I have VFO energy as specified in the instructions. This means there is a signal at C97/R86 to the base of Q22.

Values, placement and soldering of C97, R86 and all components around Q22 and Q23 have been very carefully checked. There are no solder bridges.

Voltages on Q22 are: Base 0.49 (should be 0.63)
 Collector 1.81 (should be 2.47)
 Emitter 0.0

I note the Vbe is low for a Si device.

Voltages on Q23 are: Base 1.81 (tied to Q22 Collector)
 Collector 4.96 (agrees)
 Emitter 1.78 (should be 2.3)

Again I note the Vbe is 0.03 volts!

Does this indicate a shorted Q23 (2N3904)? I would appreciate some feedback before I start hacking Q23 out of the circuitboard perhaps needlessly.

Thanks for any advice.

72 de Bob.

72/73 de Bob--Amateur Radio Station VE3SUY (lycott@fox.nstn.ca)
Robert W. Shaw, Ottawa, Ontario, Canada

Date: Sun, 14 Feb 1999 10:54:29 EST
From: Wa2eaw@aol.com
To: qrp-l@lehigh.edu
Subject: [33018] telescoping antenna
Message-ID: <6018ff8.36c6f1b5@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi to all;
Just a passing comment.
Was in Home Depot the other day and in the paint dept. there was nested extension poles that extend to 23.5' and when nested are about 9'.
Aluminum; yellow(not important) dont recall the price. Sorry.
Just felt that with a little whip added to the extended pole I could get on 40M with a 1/4 w1 vert. No antennas allowed here. HI HI. (Florida condo) 20M and up no problem.
72/73 Bob/ WA2EAW

Date: Sun, 14 Feb 99 10:18:38 -0500
From: Chuck Adams <adams@ticnet.com>
To: Sam Billingsley <SBillingsley@usaninc.com>
Cc: qrp <qrp-l@lehigh.edu>
Subject: [33019] Re: Reading the K5FO QRP-L Archives CDRom verison 2/4/99
Message-ID: <E10C4E0-0007KS-00@smtp.ticnet.com>

Sam,

Thanks for the note on the CD ROM.

I keep adding daily digests and if someone sends me a disk they will get the latest and greatest.

Version 2.0 is scheduled for March 1 timeframe and it will have HTML stuff on it thanks to another member of the list and I'll announce as soon as it is available and all the features.

I'll add an index file for all the directories and comment all of my .jpg's for all the rigs that I have built over the years.

For those that have the CD and are reading through it. If you are inclined, you might write down dates and histories in chronological order and contribute them. Such things as NorCal rigs, first announcements, pricing, length of project and when it was terminated and orders no longer taken etc. Things that inquiring minds wanna know.

As Bruce, W6TOY/3, and others have mentioned the FAQ for this group is just too much. It would take the entire ARRL collection and then more to write it all up, but maybe a group can start it. I know that I have tried and failed the challenge.....

Again, thanks and the idea for the project was to make sure that it was preserved. I will be bringing a few disks to Atlanticon with me and if people will let me know in advance I can make them up. Since I might expect a few requests I will only bring them in vellum sleeves or whatever without the plastic jewel cases to save my arms when carrying the bag. I plan on traveling light....

dit dit

P.S. the files I am told can not be read by NotePad so you have to use edit or vim or software that doesn't need the extra LF character on each line.

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sun, 14 Feb 1999 11:49:50 -0500

From: Sam Billingsley <SBillingsley@usaninc.com>
To: adams@ticnet.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33020] RE: Reading the K5FO QRP-L Archives CDRom verison 2/4/99
Message-ID: <21E06269B00ED111BE9B00805F6D0FA367026F@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

>>>>snip>>>

> P.S. the files I am told can not be read by NotePad so
> you have to use edit or vim or software that doesn't need
> the extra LF character on each line.
>

>>>>snip>>>

I use WordPad and it works FB with no change.

Sam AE4GX Atlanta,GA

Date: Sun, 14 Feb 1999 10:57:51 -0600
From: "Joe S" <joe@quadj.com>
To: <pacyna@worldnet.att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33021] Re: Misc. Items
Message-ID: <005b01be583b\$2971ef40\$aed132ce@joes>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ed, I would like the MFJ 815b...where do I send the check? :)

Joe KK5NA

-----Original Message-----

From: Ed Pacyna <pacyna@worldnet.att.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Sunday, February 14, 1999 9:47 AM
Subject: FS: Misc. Items

>MFJ Model 815B, Cross Needle SWR/WATTMETER HF
>
>New, \$35 + Ship

>
>
>USR Model 839 Sportster External 33.6 Faxmodem
>
>New (still in factory blister wrap), \$35 + Ship
>
>Ed, W1AAZ
>
>
>
>
>
>
>

Date: Sun, 14 Feb 1999 11:08:44 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: Brett.Gazdzinski@mci.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33022] Re: New emtech kit completed
Message-ID: <36C7031C.FA828A01@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Brett Gazdzinski wrote:

> A couple of things I noticed in the preliminary tests....maybe you
> experienced people on the list can tell me if they are normal for most
> QRP kits.....
> The swr seems to affect the transmitter quite a bit, and with the 80
> meter version of the kit, the receiver and transmitter adjustments
> wont hold for the whole band....you can tune the rig up for a portion
> of the band, but the rx sensitivity and tx power fall off somewhat
> quickly.

SWR is a function of the antenna and feedline. Most 80 meter antennas will not provide full coverage of the band unless they are fed with open wire line and a tuner. My Butternut HF2V vertical will only provide about 80 khz coverage with less than 2:1 swr. With the resonance set at 3550, sensitivity is down noticeably at 3800 khz. This is normal.

I would be careful operating too far away from the point where your antenna is resonant as I believe relatively few qrp kits have any kind

of protection built-in for high swr. Solid state equipment likes to see relatively low swr at its output. If it doesn't, overheating can result in damage to your finals.

73 de Dave, N0IT

Date: Sun, 14 Feb 1999 09:24:18 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [33023] I don't want to build another thing!
Message-ID: <36C706C2.E6500DE1@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Last night I finished my NC20. Everything seems to be working great. In the last 2 and 1/2 weeks I have built a NC20 and a K2. I have been working 10 hour days, 6 days a week at work and then came home and worked many hours per night on the rigs.

This morning I had to look up my XYL's name to write it on her Valentines card.

Well, I hope to get on the air for a while and make some Q's.

When is the next project coming out? I should be ready by ... say this evening.

--

73 de AC6KW <mailto:grudin@vdbs.com>
Jeff Grudin, DVM Web Add: <http://www.vdbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Sun, 14 Feb 1999 09:41:05 -0800
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [33024] Valentine's Day Alert.... (!)
Message-ID: <199902141737.JAA10798@proxy3.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey Gang,

Remember -- it's Valentine's Day!!!
Don't forget to give your wife/XYL/better-half/etc a nice
box of chocolates, flowers, etc...

Carry on es gud K2 DX,

72 - Conrad - NN6CW

Date: Sun, 14 Feb 1999 12:41:06 -0500
From: K4AHK@ix.netcom.com
To: qrp-l mail <qrp-l@Lehigh.EDU>
Cc: Bill Harding <K4AHK@ix.netcom.com>
Subject: [33025] FS: Kenwood TH-78A
Message-ID: <36C70AB2.934@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For sale: KENWOOD TH-78A Dual Band 144/440 Handheld

Purchased in July of 1995, this radio has been used very little. It is
a 9.9 on a scale of 10. Comes in original Kenwood packaging with all of
the original documentation.

Extra items include a second rechargeable battery, Periphex type PB-13S
NiCad, a Kenwood BT-8 Battery Case for 6 size AA cells, and an SMC-32
Speaker Mike. The original Kenwood wall wart for charging has been
replaced with a heavier duty Radio Shack model which works very well.

A recent list of 5 sales on e-bay showed prices ranging from \$175 to
\$280 with an average sale price of \$231.

I am asking \$225, with all of the extras included, shipped CONUS via
UPS.

Why am I selling it? I just bought a new Yaesu tri-band model VX-5R
which includes 50mHz. If interested, please respond directly to me -
not to the list.

Bill Harding - K4AHK
Burke, VA - FM18

Date: Sun, 14 Feb 1999 12:52:18 EST
From: Ed Loranger <we6w@juno.com>
To: w6toy@erols.com
Cc: qrp-1@Lehigh.EDU
Subject: [33026] Re: Norcal 20 VFO
Message-ID: <19990214.094823.4695.0.we6w@juno.com>

On Sun, 14 Feb 1999 03:07:55 -0500 Bruce Muscolino <w6toy@erols.com>
writes:

>Tom,
>
>What color is "velvet"? I think you meant "violet".
>

Well Bruce. It is Valentine's day :)

I like Tom's colorcode.

72, Ed WE6W, AR Millennium QSO's=427/2000
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 14 Feb 1999 13:03:36 -0500
From: "Paul Helbert, Wv3j" <phelbert@rica.net>
To: "tentec@contesting.com" <tentec@contesting.com>, Low Power Amateur Radio
Discussion <qrp-1@Lehigh.EDU>
Subject: [33027] FS: OMNI VI PLUS
Message-ID: <36C70FF8.917AF786@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I'd like to sell my OMNI VI PLUS which is without blemish
and in perfect condition. It is not an upgraded VI, but a
real VI PLUS. The rig is presently at Ten Tec in line for
touch up of the 40 meter crystal lock circuit which was out
of bounds on cold start but no problem once warm. (I always
left the rig on to avoid that problem.) About ten days ago

I passed through East Tennessee and left it with the factory to have that fixed and to get it a complete physical exam.

I can have it shipped directly from the factory to the buyer as soon as it is ready (in a few more days). It is fully loaded with filters (2.4, 1.8, 500 & 250 in pass band tuning IF; 500 & 250 (#221 500 HZ ctr in 9 mHz IF)). This rig does QRP through 100 watts with no modification. A better radio would be hard to find.

\$2,450.00 shipped to you (continental US) straight from Ten Tec in original shipping box. I will mail the Operator's Manual from here by priority mail.

Paul, Wv3j

Date: Sun, 14 Feb 1999 13:11:01 -0500
From: "George Heron" <gheron@nac.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [33028] FB40 contacts!
Message-ID: <00fd01be5845\$62c94d60\$49387bd1@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey gang, the Fireball 40's are starting to be heard over here in NJ and surrounding environs! Over the last week or so there have been a whole bunch of attempts on 7.080 but it seems like today being Valentine's Day is doing it for us.

I've copied parts of a short message below that we had today on our Jersey QRP reflector indicating that we have some FB-to-FB contacts. Yeah, a couple of us were using the "FB PLUS" amplifier option to get us 1 full watt, but a Fireball is a Fireball :-) [More coming later today on availability of the bag-o-parts kit we're providing for this.]

BTW ... N2CQ, N2APB and WA2UNN are ineligible for the "first FB-FB QSO" prizes that are still standing.

72, George N2APB
n2apb@amsat.org in Sparta, NJ
for the NJ-QRP Club at <http://www.njqrp.org>

=====

>Man, this is great! We're finally getting some Fireball
 >QSOs connected on 40m today!!! I just got done with N2CQ
 >(at the helm of our club call WQ2RP), and W3BB0 ... my
 first
 >FB-to-FB QSO's.
 >
 >N2ZHY was in there too but not on the FB40, and it seems
 >AB4PP was able to hear us at the QRPP levels too. (Shoulda
 >broke in JP!!)
 >
 >Tried using the Sierra as my receiver, but the AGC took
 >soooooo very long to recover. I have a much faster AGC
 >recovery time using my Kenwood TS120S as the Rx ... guess
 >I'll have to brush the dust off that now.
 >
 >Now I need to figure out how to adjust the speed of the
 TiCK
 >... seems pretty s l o w g o i n g a t t
 e
 >n w p m :-))
 >
 >72, George N2APB
 >
 >PS: Stay tuned for a posting later today announcing
 >availability of the "FB40 PLUS" amplifier kits we're doing.
 >The 1.5W boost should help people be heard more than the
 >10mw or so going barefoot.

Date: Sun, 14 Feb 1999 10:21:28 -0800
 From: Bill & Merleigh Jones <kd7s@psnw.com>
 To: qrp-l@lehigh.edu
 Subject: [33029] NorCal20 - First Impressions
 Message-ID: <3.0.5.32.19990214102128.008279f0@mail.psnw.com>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"

1. Each section passed it's own test, first time, every time.
2. Tune up went exactly as described in the manual
3. All the parts fit
4. Power output is variable from nothing to 6 watts
5. Key down into a dummy load at 5 watts for five minutes and the PA transistor was barely warm
6. The QSK is absolutely the BEST I've every heard
7. This is NOT a hurry-up-and-build-it kit
8. The manual, components and overall design are absolutely first class.

9. Nobody will recognize mine when I'm finished with my planned modifications and enhancements

"...God is the strength of my heart,
and my portion for ever."

<>< Psalm 73:26 <><

Date: Sun, 14 Feb 1999 13:43:05 -0500
From: Ken Newman <N2CQ@citnet.com>
To: njqrp@njqrp.org, QRP-L@lehigh.edu
Subject: [33030] FIREBALL PLUS TO FIREBALL PLUS QSO!
Message-ID: <3.0.6.32.19990214134305.0083bbe0@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This QSO won't affect the Fireball QSO prizes but there was a 2X QSO from Fireball Plus to Fireball Plus this AM. The Fireball Plus used were beta test kits before the announcement on the amp.

WQ2RP Confirming QSO with N2APB on Feb 14, '99 at 1631z at 7080.5 khz. Your RST was 549 and I confirm the 559 from you. Est. 90 miles.

ALSO:

WQ2RP Confirming QSO with N2ZHY/QRPP (Fireball jr.) on Feb 14, '99 at 1426z on 7080.4 khz. Your RST 339 and I confirm the 559 from you. Est. 49 miles.

Yes, Fireball to Fireball Plus QSO made! (No cigar for the Plus beta QSO though).

Other QSOs on the Fireball Plus:
Feb 13 1907z N4UY (Est. 128 miles)
Feb 13 1923z AB4PP (Est. 327 miles)

Fireball Plus kit announcement SOON!

72/73 de
Ken Newman - N2CQ
Woodbury, NJ

N2CQ@ARRL.NET

~~~NJ QRP Club Home Page ~~~  
<http://www.NJQRP.org>

~~~Club Callsign~~~  
WQ2RP

Date: Sun, 14 Feb 1999 13:48:01 -0500
From: "Rob Dey" <rdey@myhost.com>
To: <qrp-1@Lehigh.EDU>
Cc: <ori@juno.com>, <pharden@aoc.nrao.edu>
Subject: [33031] Slight chirp on 38-S
Message-ID: <199902141848.NAA25460@mail.myhost.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello,

I thought my 38-Special was working great. Everything appears to be fine with a clean 40Vpp, 10.1MHz sinewave into 50-ohms (4-watts out), and lots of signals heard in the headphones. It wasn't until I tried to make some contacts that I realized I had a chirp. This appears with any type of RF load, including a dummy, and with any type of power supply, including a battery. I have the original RIT mod installed, which appears to be working correctly, but I haven't done any serious testing with a frequency-counter. Also, the 5-watt mod is the dc-coupled version.

I am wondering if the chirp could be from one of the following:

- * TC2 misaligned, even though it was tweaked with a scope for a clean sinewave.
- * The RIT mod that some people say doesn't work, but never say why.
- * The 7808 regulator which some say is a problem, but here again, I don't

know the details.

Since I'm not sure where to start looking, I'd appreciate any responses from the list.

Thanks in advance.

Below is a partial list of the parts that I used.

38-Special Band-specific Parts

C3 100pf
C22 100pf
C26 330pf
C28 820pf
C29 560pf
C501/C505 330pf
D3 1N4004
L1 6.8uH RFC
L2 1.8(1.78)uH 20T
L3 (0.38)uH 8T
L4 (0.75)uH 12T
L101/L5 2.9(3.07)uH 27T
T1 (1:1.68)uH 2:19T
X1 22.1184MHz
X2, X3 12.0000MHz

72/73,

Rob L. Dey, KA2BEO

E-mail: rdey@myhost.com

Rob's Ham Shack

<http://www.myhost.com/rdey>

Point Pleasant, NJ, USA

Member: ARRL, 10-X #65539, NorCal #2249, QRP-L #1807, NJ-QRP #176, ARS #506, JSARS, AWA

Date: Sun, 14 Feb 1999 11:31:04 -0800 (PST)

From: Ron Stark <ku7y@dri.edu>

To: QRP-L <qrp-l@Lehigh.EDU>

Subject: [33032] NA Sprint

Message-ID: <Pine.SOL.3.96.990214112448.7114A-100000@vortex.dri.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Fun time with QRP in the Sprint. My goal was 200 QSOs and I missed that by a LONG way... :-(

| BAND | Raw QSOs | Valid QSOs | Points | Mults | Countries |
|--------|----------|------------|--------|-------|-----------|
| 80CW | 21 | 21 | 21 | 0 | 0 |
| 40CW | 76 | 76 | 76 | 7 | 1 |
| 20CW | 65 | 65 | 65 | 32 | 0 |
| Totals | 162 | 162 | 162 | 39 | 1 |

Final Score = 6480 points.

But in Feb of 98 I only got 85 QSOs. In the next one I got 138 QSOs and this one was 162 so at least I am slowly getting better.

This is, I think, the most demanding contest going. The speeds are high. I found that I used 35 to 40 wpm most of the time just to not be too slow for the big boys!

I also QRSed as number of times to about 16-20 wpm. I also heard many others slow down as needed.

I hope that many of you had a chance to play a bit. I did work some from here and want to thank all for the contacts.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sun, 14 Feb 1999 13:33:15 -0600 (CST)
From: John Bohnert <johnb@elmhurst.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [33033] NC20 - Grounded Bit/Soldering Iron
Message-ID: <Pine.SV4.3.96.990214130641.1179C-100000@elmhcx9.elmhurst.edu>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ready to begin section seven (TUNE and RIT controls). Whoa! Looking at U1 (LF351N) in my left hand and my faithful Ungar soldering iron in my right hand and the warning in the manual about parts sensitive to damage by static electricity going through my head. I have used this iron to build, most recently, the SW40+ and Sierra. No problems.

I can comprehend that I can generate static electricity and I should touch the station ground before handling sensitive parts. Why not touch the iron tip to ground before soldering? In Mouser's every soldering iron that mentions something about tip resistance or electrostatic dissipative is VERY expensive. Less expensive irons do not seem to include grounded tips as part of their specs.

>From some other postings about sales of soldering stations, I am tempted to put my Ungar out to pasture. but I am curious as to whether I should make this purchase before constructing section seven and the subsequent sections. Have I been 'lucky' up to now?

72 N9KW John Elmhurst, IL QRP-L 1257 NORCAL

Date: Sun, 14 Feb 1999 15:04:25 EST
From: K4NK@aol.com
To: qrp-l@Lehigh.EDU
Subject: [33034] ARCI INFO
Message-ID: <e8ec27df.36c72c49@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

QRP ARCI MEMBERS;

I was researching an old 1979 Quarterly today and read with interest the activity on our nets. Recent writings have the nets now all but dead and buried. Perhaps the internet and the QRP-L are a better way to exchange ideas, but in the true spirit of amateur radio getting on the air and exchanging your number or greetings is what it is all about. Did you know we even had monthly QSO partys ?

72 Les K4NK

QRP ARCI CLUB HISTORIAN

Date: Sun, 14 Feb 1999 11:13:19 -0500 (EST)
From: James Skalski <jskalski@buffnet.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33035] Re: AEA AT-300/AT-3000 ?
Message-ID: <Pine.LNX.4.04.9902141108010.3394-1000000@odin.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks for the info on the Tuners. Now I will throw together some SWR bridges to use with the AEA cross meters. When I get it going; I'll check to see if anyone is interested in building them. They would be a nice addition to a homebrew tuner. They could be used to make a 3/30/300/3000 watt meter since the scale goes from 0-300watts forward meter and 0-60 watt reverse meter and has the marking for swr where they cross each other. Neat idea.

73,

Jim N2go

Date: Sun, 14 Feb 1999 13:16:52 -0700
From: Bruce Grubbs <bog@flagstaff.az.us>
To: qrp-1@LeHigh.edu
Subject: [33036] PSK31 first contact
Message-ID: <3.0.5.32.19990214131652.0096ba80@mail.infomagic.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,
Just made my first PSK contact, running 7 watts. Almost but not quite QRP- the Alinco runs a bit too much power on the low setting. That'll be fixed with the K2...

Anyway, I've seen a bit posted on PSK here, but in case anyone hasn't heard of it, PSK is a keyboard to keyboard mode using phase shift keying and very narrow bandwidth. I've copied sigs that I could barely hear, so it seems like there is a lot of QRP potential. It works like RTTY, in that it's conversational, and there can be more than 2 stations in a QSO. Fun stuff!

For more info, see the PSK31 web site at <http://aintel.bi.ehu.es/psk31.html>

Bruce, N7CEE
bog@flagstaff.az.us

Date: Sun, 14 Feb 1999 15:31:58 -0500
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [33037] Re: NA Sprint
Message-ID: <199902142031.PAA165598@virtualmaster3-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ron and gang,

Wow I thought it was me re: speeds. I worked KA9FOX early on 40M and I felt a little out of his league. Had to asked for a repeat 'cause I missed it the first time. Had that with two other guys too.

I told myself I wanted to get to 33-35+ WPM comfortably by Field Day so I could do my best, and this was a shell shocker speed-wise for me. I didn't have a 20M antenna up so only worked a handful of guys for about 40 minutes on 40M.

72 Kevin N2TO
Brooklyn, NYC
kfglynn@prodigy.net

Date: Sun, 14 Feb 1999 14:46:29 -0600
From: "chris" <guardian@mvtel.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [33038] test
Message-ID: <006701be585b\$1b3cf300\$020000003@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

test

Date: Sun, 14 Feb 1999 15:03:12 -0600 (CST)
From: flruark@webtv.net (Floyd Ruark)
To: qrp-1@Lehigh.EDU
Subject: [33039] TEST
Message-ID: <17448-36C73A10-204@mailtod-241.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)
Content-Transfer-Encoding: 7Bit

TEST PLEASE DISREGARD THANKS

Date: Sun, 14 Feb 1999 13:59:14 -0800
From: Bob Kelllogg <ae4ic@nr.infi.net>
To: radman@best.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [33040] Re: soldering station (on sale !)
Message-ID: <36C74732.5E9F167A@nr.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys,

This is the soldering iron I use, and I would strongly urge those who are thinking about buying a new iron to consider this one. I've bought and used many irons, including some "good" ones, but this is the best I've ever had. Mine must be 20 years old, and I've replaced the heating element and other parts, but it just keeps on tickin'

Radman wrote:

> The Weller WTCPT solder station is on sale at Wassco for
> \$75.95.
> URL: <http://www.wassco.com/was/wtconoutstat.html>
> or call: 1-619-679-8787

CUL,

Bob Kellogg, AE4IC, Greensboro, NC
Probably, not nececelery. - Benny Hill

Date: Sat, 13 Feb 1999 22:03:24 +0100
From: Anita och Lars Olsson <anita.lars.olsson@telia.com>
To: qrp-l@Lehigh.EDU
Subject: [33041] 7040 area may be crowded this weekend
Message-ID: <36C5E89C.562D@telia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello QRP friends,
I dont know if someone has rold you before, but.... 7040 kHz is
impossible to use, at least up here in northern Europe.
So, if someone wonder why there are no SM-stations on that frequency -
now you know.
73 de Lars / SM3AVQ

Date: Sun, 14 Feb 1999 17:20:44 EST
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [33042] Cap Orders: The End, for now
Message-ID: <19990214.221927.5031.1.wb2vuo@juno.com>

Wow! what a response!.. I have requests for all the parts as of now. If
I receive any more requests, I will have to wait on them until Tom gets
back to me on the other batch, which may be a different part.

I can, and will fill all the requests as of 13 February, 1999, but can't
guarentee parts after that date. If the second aucion lot comes thru, I
will post to the List.

Thanks to all. It's been fun and educational, too...

I just wish I had set some aside for me :-(

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp.
Trustee, B/BAMS club station and the NQ2RP/B 10 Mtr QRPP beacon
"My night light runs more power than my Rig!!!"

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 14 Feb 1999 16:42:57 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [33043] FOX: Team scores (fwd)
Message-ID: <Pine.LNX.3.95.990214163517.30876A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...WS4S - fox hunt #28...

The 40 mtr Fox Hunt Team Scores

...the Houston Hounds- 19.900 - hounds-> K5ZTY,W5SB,KK5LD

...the Vibro-Fox Finders - 17.200 - hounds -> WE6W,KU7Y,WS8D

...the Underdogs - 16.909 - hound -> KI0II

...the Texas Tarantulas-16.500-hounds->AB5WX,K5LN,N5TW,W5HNS"CLEAN SWEEP!"

...the Fox Nabbers - 15.065 - hungry hounds here.

...the Brass Pounders - 14.000 - hounds -> AB8DF,N1FN,AK7Y

...the Northern Lights - 11.899 - hounds-> VE6EWM,VE5RC

...the Kentucky Porch Houndz - 9.000 - taking nose sniffing course.

...the Swords - 7.659 - sharpening their teeth.

...the Team Apathy - 5.994 - hounds -> K7TQ,AB7TT

...the Jersey Diddles - 2.991 - hungry lot here.

Date: 14 Feb 99 18:12:05 EST
From: Roy Lincoln <wa4dou@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [33044] Re: [ARCI INFO]
Message-ID: <19990214231205.6055.qmail@www0a.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

K4NK@aol.com wrote:
QRP ARCI MEMBERS;

I was researching an old 1979 Quarterly today and read with interest the activity on our nets. Recent writings have the nets now all but dead and buried. Perhaps the internet and the QRP-L are a better way to exchange ideas, but in the true spirit of amateur radio getting on the air and exchanging your number or greetings is what it is all about. Did you know we even had monthly QSO partys ?

72 Les K4NK

QRP ARCI CLUB HISTORIAN

Hi Les and gang,

I remember when the club used to hold monthly qso parties as you described. I used to have a certificate with endorsements for about 200 members worked back in the '60's from those events and from just calling CQ QRP.

73 Roy Lincoln WA4DOU

Get free e-mail and a permanent address at <http://www.netaddress.com/?N=1>

Date: Sun, 14 Feb 1999 18:30:29 -0500
From: mike kuehn <w9ky@iquest.net>
To: qrp-l@lehigh.edu
Subject: [33045] cd-roms
Message-ID: <199902142330.SAA49398@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gentlemen: Need some help with my old computer. I'm trying to install a cd-rom drive in my old computer, a 386-SX25. I loaded the software and after a reboot, the computers 80mb hard drive would not work agn, a total lockup !!! I now have a bigger 250mb hard drive with a new I/O 16550 card. The card allows the 56k modem to work and I have hopes of tying the 36x cd-rom into this card as well. There is a spot to hook the ribbon cable to.

Just need some advice. Locals around here say my larger hard drive will work ok with the cd-rom whereas the smaller one (80Mb) there is a conflict. I'm willing to try again I just don't want to screw-up the 250mb drive and have to start over!

My big computer is away at college so for me this little computer works vy well for E-Mail and my limited time on the web. Any help will be greatly appreciated!!! When I get this fixed, I'll get back to low bands and QRP building.

Tnx Mike W9KY

Date: Sun, 14 Feb 1999 18:50:22 -0500
From: "Harry, WA3PTG" <hhurst@delaware.infi.net>
To: <SBillingsley@usaninc.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [33046] Re: Reading the K5FO QRP-L Archives CDR0M verison 2/4/99
correction and clarification
Message-ID: <005001be5874\$cac94030\$2f4b9ace@wa3ptg>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The archive CD is really great!

I've been thinking it would be great to have a program that would compile all messages in all the archive files containing a word or phrase, say, all messages containing "Doug DeMaw" or "2N2222" and put them in a text file. It would make mining the archives a bit easier. I whipped up a quickie qbasic program, but immediately ran into string space problems, and of course qbasic is deadly slow. Anybody got a utility to do this???

Date: Sun, 14 Feb 1999 18:53:30 EST
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [33047] Caps: Orders NOT Yet Received
Message-ID: <19990214.235202.5103.5.wb2vuo@juno.com>

Here's the list of those that asked about caps, and I have NOT received anything in the mail as of 13 February, 1999:

J. Brodsky
CX9AAK/W2
VE2GHI (Email'd that check's on the way)
VE3VFN
WB2DHK
W2GUM (Email'd that check's on the way)
AE2T
N2TO (Email'd that check's on the way)
K3HW

KE4BAF
AI4CW
KE4IOF
KC4MHM
KF4PGK
W6EV
KE6CDC
WB6LDL
NN7CK
AB7OA
KC8HZZ
NU0V

If you are on the List, and have either changed your mind, or need to
cancell due to other committments/obligations/tetc, please let me know.
I am on the bubble with parts, all of the dual variable are committed,
and all but 2 of the 8pF have been requested.

I will have word on the second auction lot Wednesday or Thursday, and IF
there are more caps, will post the same.

Replies either here at wb2vuo@juno.com, or over at the club account at
qrp10@juno.com are OK.

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp.
Trustee, B/BAMS club station and the NQ2RP/B 10 Mtr QRPp beacon
"My night light runs more power than my Rig!!!"

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End of QRP-L Digest 1367

